Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A device ~~Device~~ for supplying electrical energy to a sensor which is at a high electrical voltage in painting systems, the device comprising~~characterised in that it comprises~~:

   [[~~a~~)]] a light source [[(~~1~~)]] which is at a low electrical potential, in particular the earth potential;

   [[~~b~~)]] a light receiver [[(~~2~~)]] in which a converter [[(~~3~~)]] converting light energy into electrical energy is provided, which is electrically connected to the sensor and is at the high potential of the sensor; and,

   [[~~c~~)]] an optical waveguide [[(~~4~~)]] which connects the light source [[(~~1~~)]] to the light receiver [[(~~2~~)]];

2. (currently amended) The device of~~Device according to~~ Claim 1, wherein~~characterised in that~~ the converter [[(~~3~~)]] is a solar cell.

3. (currently amended) The device of~~Device according to~~ Claim 1 ~~or 2~~, wherein~~characterised in that~~ the optical waveguide [[(~~4~~)]] is formed by a bundle of optical fibres.

4. (currently amended) The device of~~Device according to~~ Claim 3, wherein~~characterised in that~~ the light receiver [[(~~2~~)]] has a housing [[(~~5~~)]] in which is a transparent plate [[(~~6~~)]], into which the ends of the fibres of the optical waveguide [[(~~4~~)]] are fed, is arranged in the vicinity of a side wall, all the internal surfaces of the housing [[(~~5~~)]] which the light emerging from the transparent plate [[(~~6~~)]] can reach being provided with a reflective layer [[(~~7~~)]].

5. (currently amended) The device of~~Device according to~~ Claim 4 wherein~~characterised in that~~ the transparent plate [[(~~6~~)]] is a plastic plate.

6. (currently amended) The device of~~Device according to~~ Claim [[4 ~~or~~]]5, wherein~~characterised in that~~ the reflective layer consists of aluminum foil.

7. (currently amended) The device of Claim 1~~Device according to one of Claims 1 to 3~~, wherein~~characterised in that~~ the light receiver contains a converging lens by which the light emerging from the end face of the optical waveguide is essentially collimated and thus guided onto the converter.

8. (currently amended) The device of Claim 1 further comprising~~Device according to one of the preceding claims, characterised in that it contains~~ an accumulator [[(~~8~~)]] which is constantly charged by the voltage being generated by the converter[[-(~~3~~)]].

9. (new) The device of Claim 1, wherein the optical waveguide is formed by a bundle of optical fibres.

10. (new) The device of Claim 9, wherein the light receiver has a housing in which is a transparent plate, into which the ends of the fibres of the optical waveguide are fed, is arranged in the vicinity of a side wall, all the internal surfaces of the housing which the light emerging from the transparent plate can reach being provided with a reflective layer.

11. (new) The device of Claim 10 wherein the transparent plate is a plastic plate.

12. (new) The device of Claim 11, wherein the reflective layer consists of aluminum foil.

13. (new) The device of Claim 4, wherein the reflective layer consists of aluminum foil.

14. (new) The device of Claim 2, wherein the light receiver contains a converging lens by which the light emerging from the end face of the optical waveguide is essentially collimated and thus guided onto the converter.

15. (new) The device of Claim 3, wherein the light receiver contains a converging lens by which the light emerging from the end face of the optical waveguide is essentially collimated and thus guided onto the converter.

16. (new) The device of Claim 9, wherein the light receiver contains a converging lens by which the light emerging from the end face of the optical waveguide is essentially collimated and thus guided onto the converter.

17. (new) The device of Claim 2 further comprising an accumulator which is constantly charged by the voltage being generated by the converter.

18. (new) The device of Claim 3 further comprising an accumulator which is constantly charged by the voltage being generated by the converter.

19. (new) The device of Claim 4 further comprising an accumulator which is constantly charged by the voltage being generated by the converter.

20. (new) The device of Claim 6 further comprising an accumulator which is constantly charged by the voltage being generated by the converter.